

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

			_		
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/601,783	06/24/2003	Yu-Chih Cheng	AOIP0009USA	9531	
27765	7590 12/17/2004		EXAMINER NORMAN, MARC E		
` /		TERNATIONAL PATENT OFFICE			
P.O. BOX 506 MERRIFIELD			ART UNIT	PAPER NUMBER	

DATE MAILED: 12/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.		Applicant(s)							
	OSS: A. C O	10/601,783		CHENG ET AL.							
	Office Action Summary	Examiner		Art Unit							
		Marc E. Norman	1	3744							
Period fo	The MAILING DATE of this communication app r Reply	ears on the cover sh	eet with the co	rrespondence ad	dress						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).											
Status											
1)⊠	1) Responsive to communication(s) filed on <u>07 October 2004</u> .										
, —	This action is FINAL . 2b) This action is non-final.										
-	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.										
	O.G. 213.										
Disposition of Claims											
4)🖾	Claim(s) 1-38 is/are pending in the application.										
 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) 35-38 is/are allowed. 											
							•	Claim(s) <u>1-3,6-22 and 25-34</u> is/are rejected.			
	Claim(s) 4,5,23 and 24 is/are objected to.	. election requirémes	nt.		• . *						
8)[_]	8) Claim(s) are subject to restriction and/or election requirement.										
Applicati	on Papers										
9) The specification is objected to by the Examiner.											
10)🛛	10) The drawing(s) filed on <u>04 November 2003</u> is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).										
441	Replacement drawing sneet(s) including the correct The oath or declaration is objected to by the Ex										
11)[The oath or declaration is objected to by the Ex	ammer. Note the att	acrieu Omce F	CHOI OF TORREST	10.102.						
Priority u	ınder 35 U.S.C. § 119										
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:											
1. Certified copies of the priority documents have been received.											
2. Certified copies of the priority documents have been received in Application No											
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).											
* See the attached detailed Office action for a list of the certified copies not received.											
COUNTY AND AND ACTION AND ACTION OF A POST OF THE COUNTY O											
Attachmen	tie)										
_	e of References Cited (PTO-892)	4) 🔲 Inte	erview Summary (F	PTO-413)							
2) Notic	e of Draftsperson's Patent Drawing Review (PTO-948)		er No(s)/Mail Date	e tent Application (PT	O-152)						
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date		er:	tom Application (r-1)	0 102)						

Art Unit: 3744

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3 and 20-22 are rejected under 35 U.S.C. 102(b) as being anticipated by Van Brocklin et al.

As per claims 1-3 and 20-22, Van Brocklin et al. discloses a method for controlling a temperature of a computer system, comprising monitoring the speed of cooling fan, calculating a change in the vital temperature, and setting the fan power based proportionally on the calculated change in temperature to increase/decrease fan speed (see column 7, line 66 – column 8, line 10).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

Art Unit: 3744

1. Determining the scope and contents of the prior art.

2. Ascertaining the differences between the prior art and the claims at issue.

3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 6 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Van Brocklin et al. in view of Chu et al.

As per claims 6 and 25, Van Brocklin et al. does not specifically discuss the fan speeds being a percentage of a detected maximum fan speed/power. Chu et al. teaches a system for controlling a CPU fan herein the fan has a maximum speed/power and the fan settings are based according to a fraction of that maximum speed (column 5, lines 34-46). It would have been obvious to one of ordinary skill in the art at the time the invention was made to apply this fan control arrangement of Chu et al. to the system of Van Brocklin et al. for the simple purpose of calibrating the fan speeds according to a maximum fan speed.

Claims 7 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Van

Brocklin et al. in view of Suzuki et al. and further in view of Hussain et al.

Van Brocklin et al. does not teach the auxiliary fan the on-die thermal monitoring transistor. These features are taught by Suzuki et al. and Hussain et al., as described in the previous Office Action, and would have been obvious for the reasons already discussed therein.

Claims 8, 12, 17, 26, and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Van Brocklin et al. in view of Hussain et al.

As per claim 8, it would again have been obvious to apply the on-die thermal monitoring transistor to the system of Van Brocklin et al. for the purpose of obtain a more accurate

Art Unit: 3744

temperature measurement and allowing greater design flexibility (Hussain et al., column 2, lines 33-38).

As per claims 12 and 29, Van Brocklin et al. teaches all the features (as discussed above) except the interface being a chipset. However, chipset interfaces are common and well-known in the art of computer control systems. Hussain et al., for example, teaches a thermal monitoring system controlling fan speed comprising interface chipset 120. It would have been obvious to one of ordinary skill in the art at the time the invention was made to apply the chipset 120 of Hussain et al. to the system of Van Brocklin et al. for the purpose of facilitating communication between the controller and the CPU (See Figure 1 of Hussain et al.).

As per claims 17 and 26, see discussion of claim 8, above.

Claims 10, 11, 27, and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Van Brocklin et al. in view of Suzuki et al.

As per claims 10, 11, 27, and 28, Van Brocklin et al. does not specifically teach the application data being stored on RAM or BIOS. Suzuki et al. teaches control application data being stored on RAM 50 and BIOS 14 (Figure 1). It would have been obvious to one of ordinary skill in the art at the time the invention was made to apply these features of Suzuki et al. to the system of Van Brocklin et al. since these are simply common and well-known means for data storage.

Claims 13-16, 18, 19, and 30-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Van Brocklin et al. in view of Hussain et al. and further in view of Suzuki et al.

Art Unit: 3744

As per claims 13-15 and 30-32, the combination of Van Brocklin and Hussain et al. does not specifically teach the memory/RAM/BIOS recited in these claims. However, these features are taught by Suzuki et al. as discussed in the previous Office Action. Again, It would have been obvious to one of ordinary skill in the art at the time the invention was made to apply these features of Suzuki et al. to the system of Van Brocklin et al. since these are simply common and well-known means for data storage.

As per claims 16, 18, and 33, see discussions of similar claims 7 and 9, above.

As per claim 19 and 34, Suzuki et al. further teaches user interface with input/display for receiving control references to control parameters to generate the fan control signal (Figure 24).

Allowable Subject Matter

Claims 4, 5, 23, and 24 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 35-38 are allowed.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

Art Unit: 3744

MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Page 6

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marc E. Norman whose telephone number is 571-272-4812. The examiner can normally be reached on Mon.-Fri., 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Denise Esquivel can be reached on 571-272-4808. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MN

MARC NORMAN PRIMARY EXAMINED